A-913  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Ketamine Reduces the Spinal Sensitization Induced by Chronic Administration of Morphine Yumikyo Kirihara, DVM; Yoji Saito, MD; Tetsuro Naka, MD; Toshikiko Nakata, MD, Dept of Anesthesiology, Shimane Medical University, Izumo, Japan. Ketamine inhibits the increased behavioral responses to non-noxious and noxious stimuli during repeated morphine administration.

A-914  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Neonatal Capsaicin Treatment Attenuates Thermal and Mechanical Hyperalgesia in an Animal Model of Postoperative Pain Yuji Kozuka, MD; Mikito Kawamura, MD; Rika Sekine, MD; Tomoyuki Kawamura, MD; Akiyoshi Namiiki, MD, PhD, Anesthesiology, Sapporo Medical University School of Medicine, Sapporo, Hokkaido, Japan. Nociceptors contribute to thermal and mechanical hyperalgesia in incisional pain.

A-915  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Pain-Related Cerebral Activation Is Enhanced by a Motor Task: An fMRI Study Jiro Kurata, MD, PhD; Keith B. Thulborn, MD, PhD; Ferenc E. Gyulai, MD, Leonard L. Firestone, MD, Anesthesiology/CCM, University of Pittsburgh, PA, United States. Pain-related cerebral activation induced by Peltier-thermoelectric stimulation on a 5-Tesla MRI scanner was enhanced by a concomitant motor task.

A-916  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Different Efficacy of Spinal Clonidine (CLO) To Alleviate Mechanical Hyperalgesia (MH) in Postoperative and Neuropathic Pain States Patricia M. Lavan-dunno, MD, PhD; Nathalie Renier; Marc De Kock, MD, PhD, Anesthesiology, St Luc - UCL, Brussels, Belgium. Spinal clonidine achieves higher efficacy in relieving hyperalgesia resulting from neuropathic pain than from postoperative pain.

A-917  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Altered Nociception in GluR2 AMPA Receptor Subunit Knockout Mice Takeshi Masayuma, MD; Bryce Vissel, PhD; Shelle A. Makkus, AHT; Stephen F. Heinemann, PhD; Tony L. Yaks, PhD, Anesthesiology, University of California, San Diego, San Diego, CA, United States. GluR2 KO induced unique pattern of responses in the facilitated pain model and greater responses in AMPA (T)-induced agitation.

A-918  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Fentanyl-Induced Tolerance to the Analgesic Effects of Morphine: Preventive Effect of Ketamine Pierre Maurette, MD; Jean-Benoit Cercuff, MD, PhD; Jean-Paul Laulin, PhD; Cyril Rivat, BS; Guy Simonet, PhD, DAR 3, Hopital Pellegrin, Bordeaux, France. Fentanyl induces a dose-dependent tolerance to morphine-induced analgesia that is completely prevented by ketamine.

A-919  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
The Responses of Intracellular Calcium Ion Concentrations in Spinal Dorsal Horn Neurons to Prostaglandin E2 Is Mediated through EP1 Receptor Activation Yoshito Nakayama, MD; Keichi Omote, MD; Mikito Kawamura, MD; Akiyoshi Namiiki, MD, PhD, Anesthesiology, Sapporo Med. Univ. Sch. of Med., Sapporo, Japan. The increment of [Ca2+]i after perfusing PGE2 was mediated through spinal EP1 receptor.

A-920  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Intrathecal MK801, an NMDA Antagonist, Potentiates CNQX, an AMPA-Kainate Receptor Antagonist, in a Postoperative Incisional Pain Model in Rats Heather A. Naitb, M.D.; Andrei M. Rakic, B.S.; Anna Victor, B.S.; Anthony D. Ivanovski, M.D., Department of Anesthesiology, Rush Medical College, Chicago, IL, United States. NMDA antagonist enhances non-NMDA glutamate antagonist reduction in tactile allodynia.

A-921  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Effects of Peripheral Administration of a Novel Selective Antagonist for Prostaglandin E Receptor Subtype EP1 in a Postoperative Pain Model Keichi Omote, MD; Tomoyuki Kawamura, MD; Mikito Kawamura, MD; Yoshito Nakayama, MD; Akiyoshi Namiiki, MD, Anesthesiology, Sapporo Med Univ Sch of Med, Sapporo, Hokkaido, Japan. EP1 receptor antagonist inhibits the incision-induced mechanical hyperalgesia.

A-922  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Effects of a Novel Selective Prostaglandin E2 Receptor Subtype EP4 Agonist on Inflammatory Reaction and Hyperalgesia in Monoarthritis Keichi Omote, MD; Tomoyuki Kawamura, MD; Mikito Kawamura, MD; Yoshito Nakayama, MD; Akiyoshi Namiiki, MD, Anesthesiology, Sapporo Med Univ Sch of Med, Sapporo, Hokkaido, Japan. EP4 agonist inhibits hyperalgesia and inflammation in acute and chronic monarthrosis.

A-923  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
The Role of Receptor Subtypes in Bradykinin Hyperalgesia in Neuropathic Mice Takeshi Ono, MD; Makato Inoue, PhD; Hiroshi Ueda, PhD; Koji Sumikawa, MD, Anesthesiology, nagaoka University Scool of Medicine, Nagaoka, Japan. Neuropathic mice have the hyperalgesia to bradykinin, resulting from the switching of receptor subtypes from bradykinin 2 to bradykinin 1.

A-924  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Preinjection of Intrathecal Magnesium Sulfate Improves Fentanyl Antinociception in the Rat Patricia M. Perry, M.D.; Robert J. McCarthy, Pharm.D.; Jeffrey S. Kroin, Ph.D.; Anthony D. Ivanovski, M.D., Department of Anesthesiology, Rush Medical College, Chicago, IL, United States. Intrathecal magnesium sulfate enhances the antinociceptive effect of intrathecal fentanyl following bolus administration.

A-925  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Granulocytes Mediate Endogenous Analgesia in Early Inflammatory Pain Helke I. Ritter, MD; Alexander Brack, MD; Halina Machelska-Stein, PhD; Michael Schaefer, MD; Christoph Stein, MD, Klinik fuer Anaesthesiologie, UKBF, Freie Universitaet, Berlin, Germany. Granulocytes produce opioid peptides including enkephalin and endorphin and can mediate endogenous pain control.

A-926  Room B, 10/16/2000 2:00 PM - 4:00 PM (PS)
Inhibition of Norepinephrine Uptake, Tramadol, an Analgesic, on Norepinephrine Transporter Function in Adrenal Medullary Cells Kenichiro Sagata, M.D.; Kouichiro Minami, M.D., PhD; Koji Hara, M.D., PhD; Nobuyuki Yanagihara, PhD; Akito Shigematsu, M.D., PhD, Department of Anesthesiology and Pharmacology, University of Occupational and Environmental Health, Japan. Tramadol inhibits the NET function.